SETTING THE NEEDLE

Select a needle to fit the material to be sewn. See Chart on Page 7. To set needle in needle clamp, turn the hand wheel toward you until the take-up lever, (T) Page 2, reaches its highest position. Loosen thumb screw, Fig. 8, located on the needle clamp. BE SURE THE FLAT SIDE OF SHANK OF THE NEEDLE IS PLACED TOWARD THE RIGHT, OR TOWARD THE INSIDE OF MACHINE. See Fig. 8. Now insert the needle in the clamp as far as it will go and retighten thumb screw. This machine uses needles classified as AA, J, or 15x1 which can be obtained in various sizes for different size threads and purposes. See Chart on Page 7.

It is important that the proper size of thread be used. Make certain that the same size and quality of thread is used in both the upper spool and the bobbin. This will prevent faulty sewing. "Bargain" thread is poor economy. In many cases, such thread has tiny knots which interfere with the free flow of the thread through the threading mechanism and needle. High quality thread is most desirable to achieve perfect sewing results.

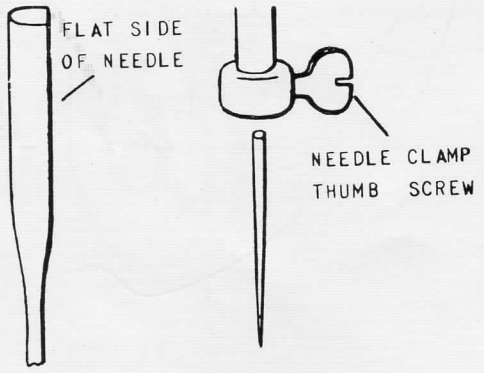


Fig. 8. To Set the Needle

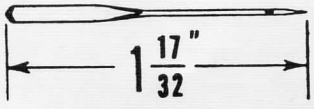
CHOOSING NEEDLE AND THREAD

The quality of the seam made by your sewing machine depends largely upon the proper selection of needle and thread size. Both should be matched as closely as possible to the type of fabric you intend to sew. See Chart on Page 7. Heavy material requires a thicker needle and coarser thread, while finer fabric calls for a thinner needle and finer thread. Using a needle that is too thick will leave marks on the cloth. A needle which is too thin will not allow the thread to pass freely through the eye of the needle.

Always make sure that the needle in your machine is not bent and does not have a blunt or hook-shaped point.

It is highly important that the correct SIZE of needle be chosen for the sewing to be done. Refer to Chart on Page 7. This Chart, in fact, indicates the proper SIZE of needle for various types of sewing.

Important: When purchasing replacement needles, make certain that they are the correct LENGTH. The diagram below shows the correct LENGTH ($1\frac{17}{32}$") to scale. If a needle is used which is not of the correct LENGTH, it is impossible to secure perfect sewing results. In fact, a needle of incorrect LENGTH will cause endless trouble.



Exact Length of Needle